# Search queries

## PubMed Query

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| **Search** | **PubMed Query – Date** | **Items found** |
| #1 | (HIV[MeSH Terms] OR HIV Infections[MeSH Terms] OR Acquired Immunodeficiency Syndrome[MeSH Terms] OR hiv infect\*[Title/Abstract] OR human immunodeficiency[Title/Abstract] OR human immuno-deficiency\*[Title/Abstract] OR acquired immunodeficiency\*[Title/Abstract] OR acquired immuno-deficiency\*[Title/Abstract] OR HIV/AIDS[Title/Abstract]) | To be reported |
| #2 | (machine learning[MeSH Terms] OR artificial intelligence[MeSH Terms] OR neural networks, computer[MeSH Terms] OR algorithms[MeSH Terms] OR decision trees[MeSH Terms] OR decision support systems, clinical[MeSH Terms] OR decision making, computer-assisted[MeSH Terms] OR decision support techniques[MeSH Terms] OR deep learning[MeSH Terms] OR fuzzy logic[MeSH Terms] OR machine learning[Title/Abstract] OR artificial intelligence[Title/Abstract] OR neural network[Title/Abstract] OR deep learning[Title/Abstract] OR computational intelligence[Title/Abstract] OR computer reasoning[Title/Abstract] OR predictive model[Title/Abstract] OR prediction model[Title/Abstract] OR decision tree[Title/Abstract] decision support[Title/Abstract] OR support vector machine[Title/Abstract] OR neural network[Title/Abstract] OR discriminant analysis[Title/Abstract] OR random forest[Title/Abstract] OR naive bayes[Title/Abstract] OR nearest neighbor[Title/Abstract] OR boosting[Title/Abstract] OR hidden markov[Title/Abstract]) | To be reported |
| #3 | #1 AND #2 **Filter:** 1990 - 2023 | To be reported |

## Embase Query

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| **Search** | **Embase Query– Date** | **Items found** |
| #1 | ('HIV':ab,ti OR 'acquired immunodeficiency':ab,ti OR 'HIV infect\*':ab,ti OR 'HIV/AIDS':ab,ti OR 'human immunodeficiency:ab,ti OR 'human immuno-deficiency':ab,ti OR 'acquired immunodeficiency':ab,ti OR 'acquired immuno-deficiency':ab,ti) | To be reported |
| #2 | ('machine learning':ab,ti OR 'artificial intelligence':ab,ti OR 'neural network':ab,ti OR 'decision tree':ab,ti OR 'decision support':ab,ti OR 'computer-assisted':ab,ti OR 'deep learning':ab,ti OR 'fuzzy logic':ab,ti OR 'computational intelligence':ab,ti OR 'computer reasoning':ab,ti OR 'predictive model':ab,ti OR 'prediction model':ab,ti OR 'support vector machine':ab,ti OR 'discriminant analysis':ab,ti OR 'random forest':ab,ti OR 'naive bayes':ab,ti OR 'nearest neighbor':ab,ti OR 'boosting':ab,ti OR 'hidden markov':ab,ti) | To be reported |
| #3 | #1 AND #2 **Filter:** 1990 - 2023 | To be reported |

## Scopus Query

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| Search | Scopus Query– Date | Items found |
| #1 | (TITLE-ABS-KEY("HIV") OR TITLE-ABS-KEY("HIV Infect\*") OR TITLE-ABS-KEY("HIV/AIDS") OR TITLE-ABS-KEY("Acquired Immunodeficiency Syndrome") OR TITLE-ABS-KEY("human immunodeficiency") OR TITLE-ABS-KEY("human immuno-deficiency\*") OR TITLE-ABS-KEY("acquired immunodeficiency\*") OR TITLE-ABS-KEY("acquired immuno-deficiency\*")) |  |
| #2 | (TITLE-ABS-KEY("machine learning") OR TITLE-ABS-KEY("artificial intelligence") OR TITLE-ABS-KEY("neural network") OR TITLE-ABS-KEY("decision tree") OR TITLE-ABS-KEY("decision support") OR TITLE-ABS-KEY("computer-assisted") OR TITLE-ABS-KEY("deep learning") OR TITLE-ABS-KEY("fuzzy logic") OR TITLE-ABS-KEY("computational intelligence") OR TITLE-ABS-KEY("computer reasoning") OR TITLE-ABS-KEY("predictive model") OR TITLE-ABS-KEY("prediction model") OR TITLE-ABS-KEY("support vector machine") OR TITLE-ABS-KEY("discriminant analysis") OR TITLE-ABS-KEY("random forest") OR TITLE-ABS-KEY("naive bayes") OR TITLE-ABS-KEY("nearest neighbor") OR TITLE-ABS-KEY("boosting") OR TITLE-ABS-KEY("hidden markov")) | To be reported |
| #3 | #1 AND #2 **Filter:** 1990 – 2023 | To be reported |

## IEEE Xplore Query

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| Search | Scopus Query– Date | Items found |
| #1 | (("HIV" OR "acquired immunodeficiency" OR "HIV infect\*" OR "HIV/AIDS" OR "human immunodeficiency" OR "human immuno-deficiency\*" OR "acquired immunodeficiency\*" OR "acquired immuno-deficiency\*") AND ("machine learning" OR "artificial intelligence" OR "neural network" OR "decision tree" OR "decision support" OR "computer-assisted" OR "deep learning" OR "fuzzy logic" OR "computational intelligence" OR "computer reasoning" OR "predictive model" OR "prediction model" OR "support vector machine" OR "discriminant analysis" OR "random forest" OR "naive bayes" OR "nearest neighbor" OR "boosting" OR "hidden markov"))  **Filters Applied:** Conferences, Journals, Magazines, Early Access Articles, 1990 – 2023  https://ieeexplore.ieee.org/search/searchresult.jsp?queryText=((%22HIV%22%20OR%20%22acquired%20immunodeficiency%22%20OR%20%22HIV%20infect\*%22%20OR%20%22HIV%2FAIDS%22%20OR%20%22human%20immunodeficiency%22%20OR%20%22human%20immuno-deficiency\*%22%20OR%20%22acquired%20immunodeficiency\*%22%20OR%20%22acquired%20immuno-deficiency\*%22)%20AND%20(%22machine%20learning%22%20OR%20%22artificial%20intelligence%22%20OR%20%22neural%20network%22%20OR%20%22decision%20tree%22%20OR%20%22decision%20support%22%20OR%20%22computer-assisted%22%20OR%20%22deep%20learning%22%20OR%20%22fuzzy%20logic%22%20OR%20%22computational%20intelligence%22%20OR%20%22computer%20reasoning%22%20OR%20%22predictive%20model%22%20OR%20%22prediction%20model%22%20OR%20%22support%20vector%20machine%22%20OR%20%22discriminant%20analysis%22%20OR%20%22random%20forest%22%20OR%20%22naive%20bayes%22%20OR%20%22nearest%20neighbor%22%20OR%20%22boosting%22%20OR%20%22hidden%20markov%22))&highlight=true&returnType=SEARCH&matchPubs=true&refinements=ContentType:Conferences&refinements=ContentType:Journals&refinements=ContentType:Magazines&refinements=ContentType:Early%20Access%20Articles&returnFacets=ALL&ranges=1990\_2023\_Year |  |